FIG. 1

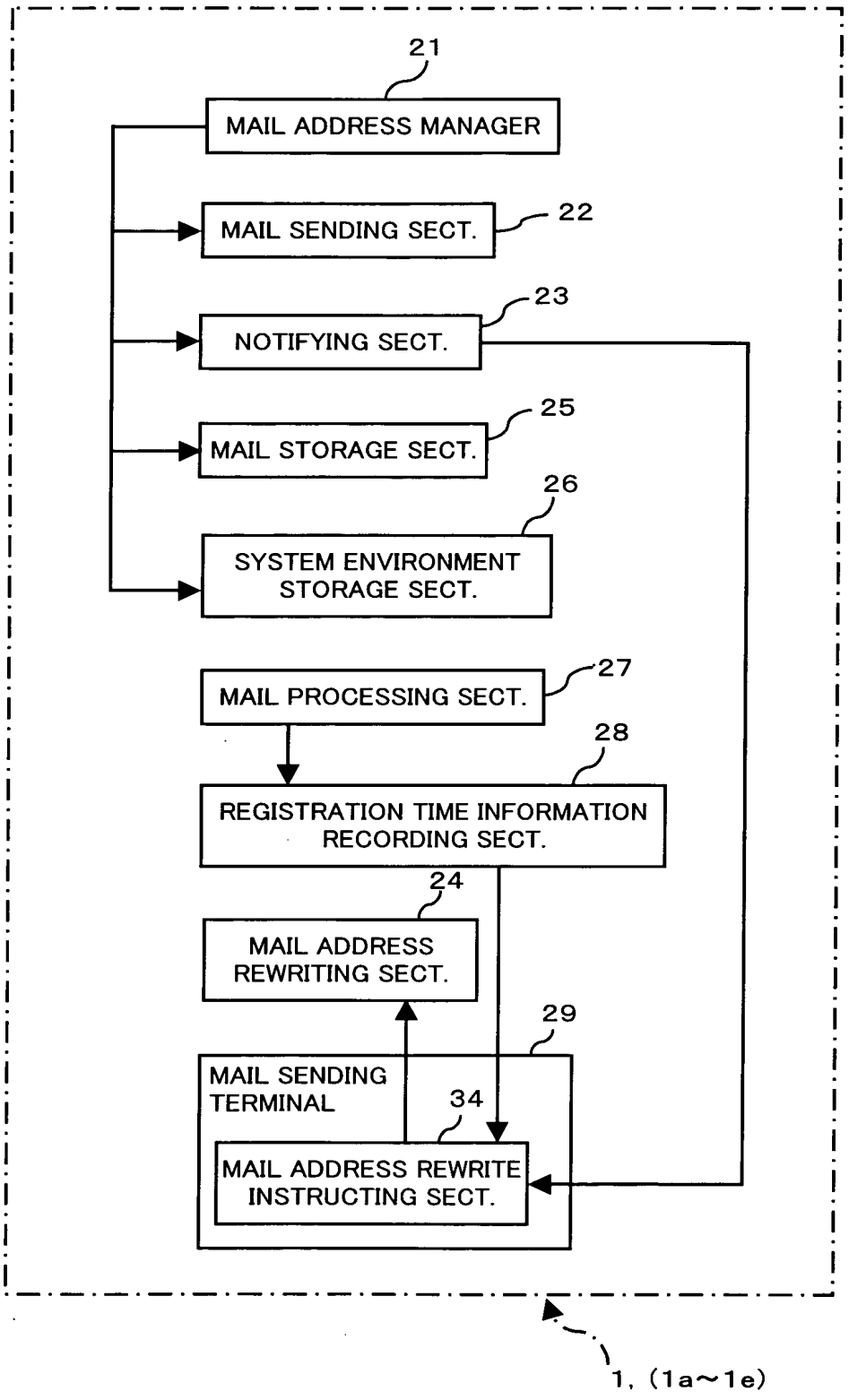

21
MAIL ADDRESS MANAGER
MAIL SENDING SECT.
22
NOTIFYING SECT.
23
MAIL STORAGE SECT.
25
SYSTEM ENVIRONMENT STORAGE SECT.
26
MAIL PROCESSING SECT.
27
REGISTRATION TIME INFORMATION RECORDING SECT.
28
MAIL ADDRESS REWRITING SECT.
24
MAIL SENDING TERMINAL
29
MAIL ADDRESS REWRITE INSTRUCTING SECT.
34
1, (1a~1e)

FIG. 2

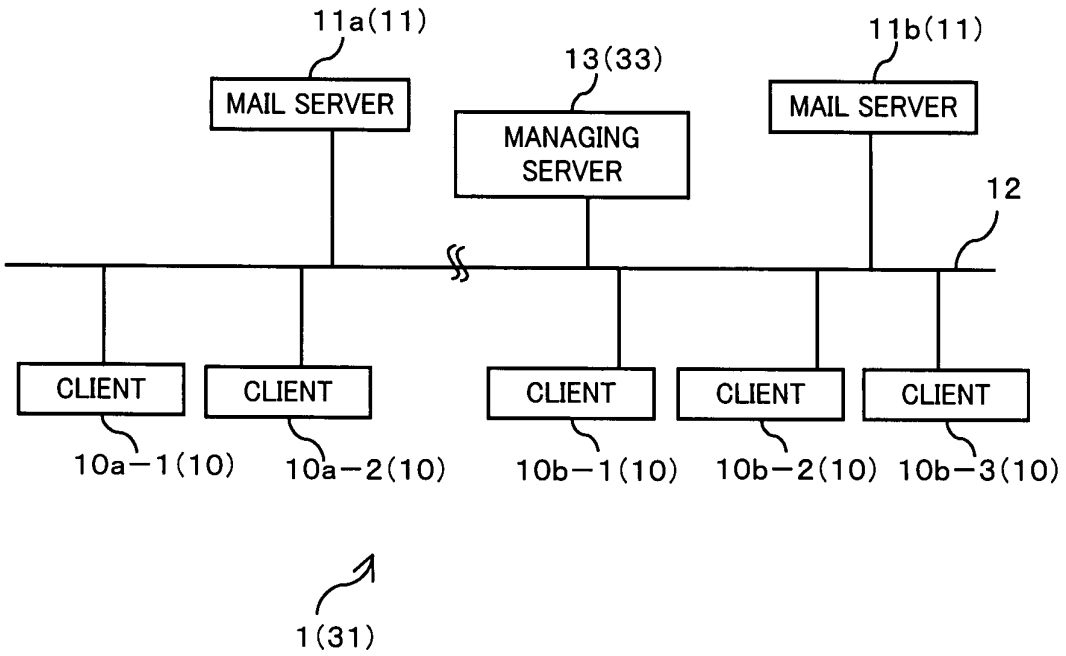

11a(11)
MAIL SERVER
13(33)
MANAGING SERVER
11b(11)
MAIL SERVER
12
CLIENT
CLIENT
CLIENT
CLIENT
CLIENT
10a−1(10)
10a−2(10)
10b−1(10)
10b−2(10)
10b−3(10)
1(31)

FIG. 3

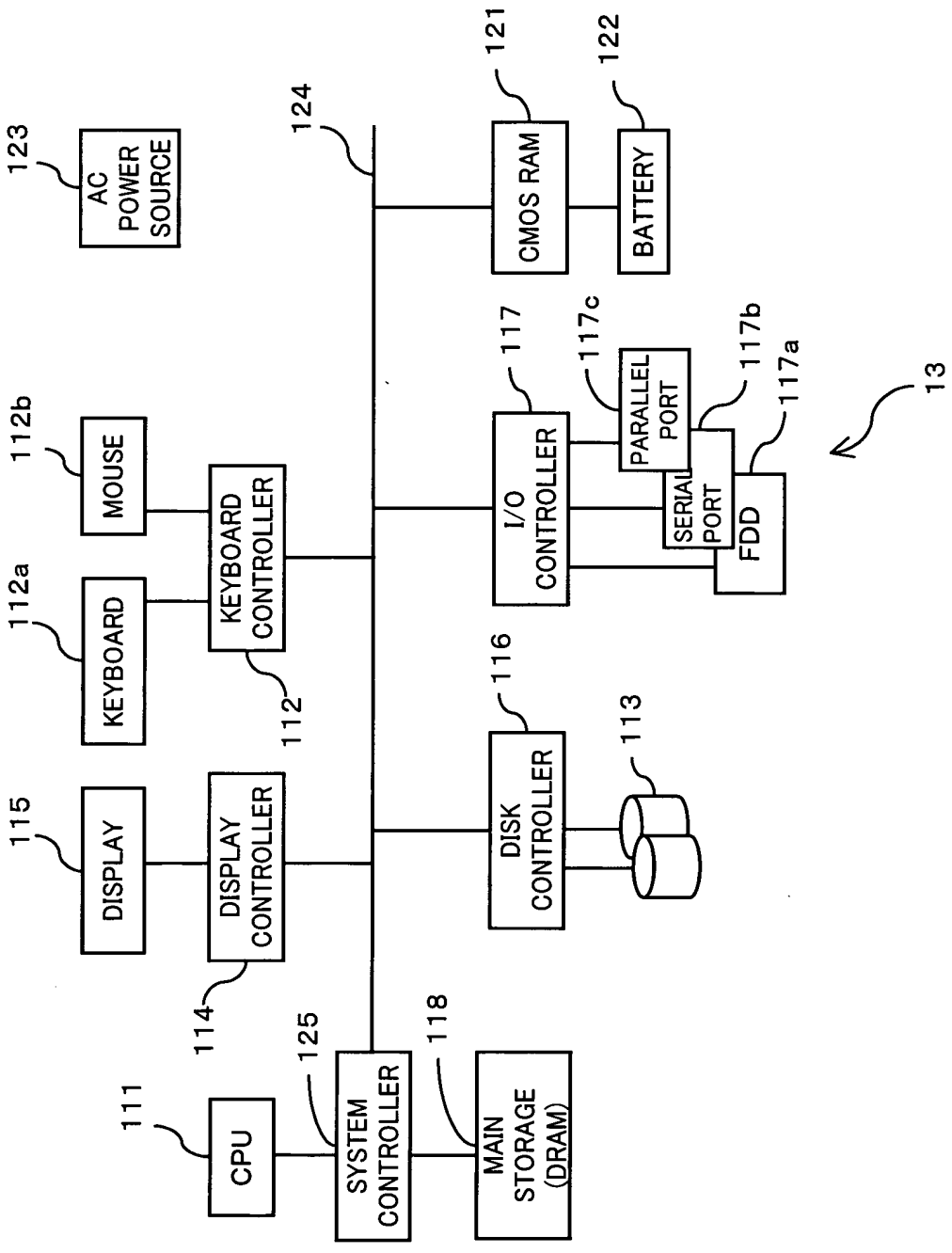

AC POWER SOURCE
123
MOUSE
112b
KEYBOARD
112a
KEYBOARD CONTROLLER
112
DISPLAY
115
DISPLAY CONTROLLER
114
CPU
111
SYSTEM CONTROLLER
125
MAIN STORAGE (DRAM)
118
DISK CONTROLLER
116
113
124
CMOS RAM
121
BATTERY
122
I/O CONTROLLER
117
PARALLEL PORT
117c
SERIAL PORT
FDD
117b
117a
13

FIG. 4

OLD ADDRESS	NEW ADDRESS
xxx@division-A.some-company.co.jp	xxx@division-B.some-company.co.jp
aaa@division-A.some-company.co.jp	

FIG. 5

```
Return-Path: <mail-master@some-company.co.jp>
Received: from mail-master
        (mail-master.some-company.co.jp [xxx.xxx.xxx.xxx])
        by mail.some-company.co.jp (Post.Office MTA vx.x.x
        release zzz-zzz-zzz ID# **************) with SMTP id AAAAAA
        for <mail-master@some-company.co.jp>;
        Wed, 24 Dec 1999 19:24:50 +0900
X-Sender: mail-master@some-company.co.jp
X-Mailer: Expanded Mailer V1.2
Date: Wed, 24 Dec 1999 19:23:58 +0900
To: john doe <jdoe@unknown-company.co.jp>
From: mail-master <mail-master@some-company.co.jp>
Subject: information of address change
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Message-ID: <some-unique-identifier@mail-master.some-company.co.jp>

An address of the mail you sent was changed.
but the mail was delivered fairly.
YOU DON'T HAVE TO SEND AGAIN.

expired address:
         xxxx@some-company.co.jp
changed to address:
         xxxx@another-company.co.jp

please change your address-list.

---
***** contents of mail ***
---

************************************
more information:
         mail to mail-master@some-company.co.jp
thank you.
```

FIG. 6

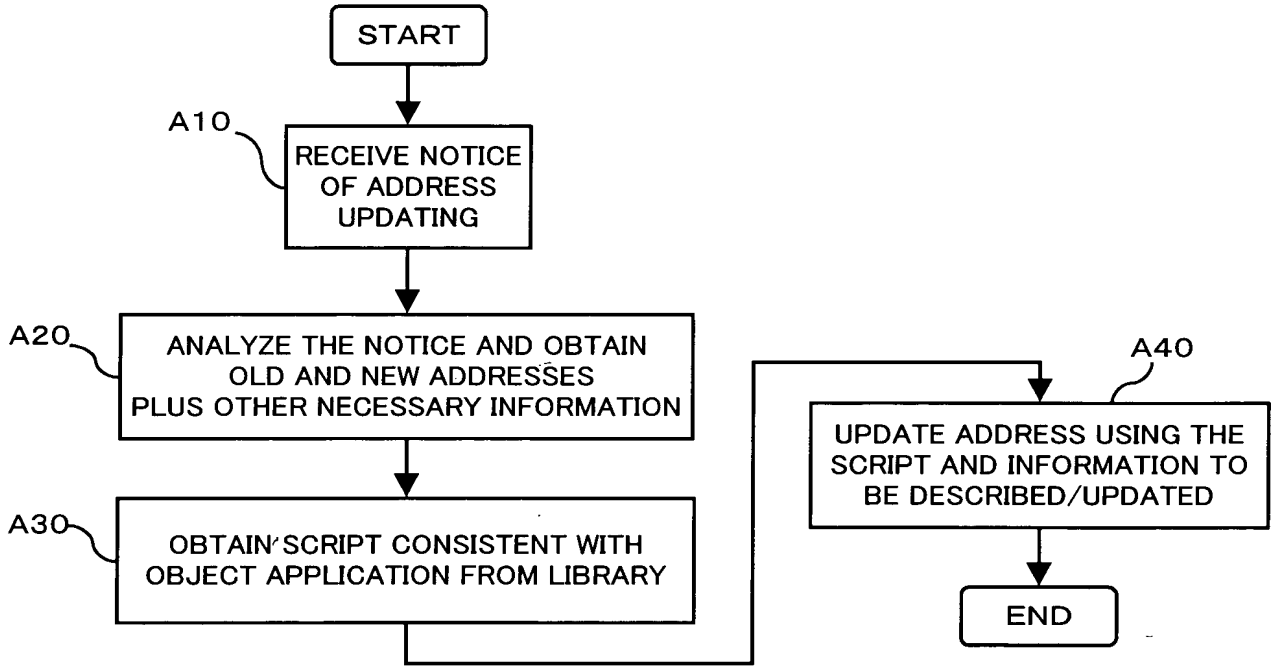

START
A10
RECEIVE NOTICE OF ADDRESS UPDATING
A20
ANALYZE THE NOTICE AND OBTAIN OLD AND NEW ADDRESSES PLUS OTHER NECESSARY INFORMATION
A30
OBTAIN SCRIPT CONSISTENT WITH OBJECT APPLICATION FROM LIBRARY
A40
UPDATE ADDRESS USING THE SCRIPT AND INFORMATION TO BE DESCRIBED/UPDATED
END

FIG. 7

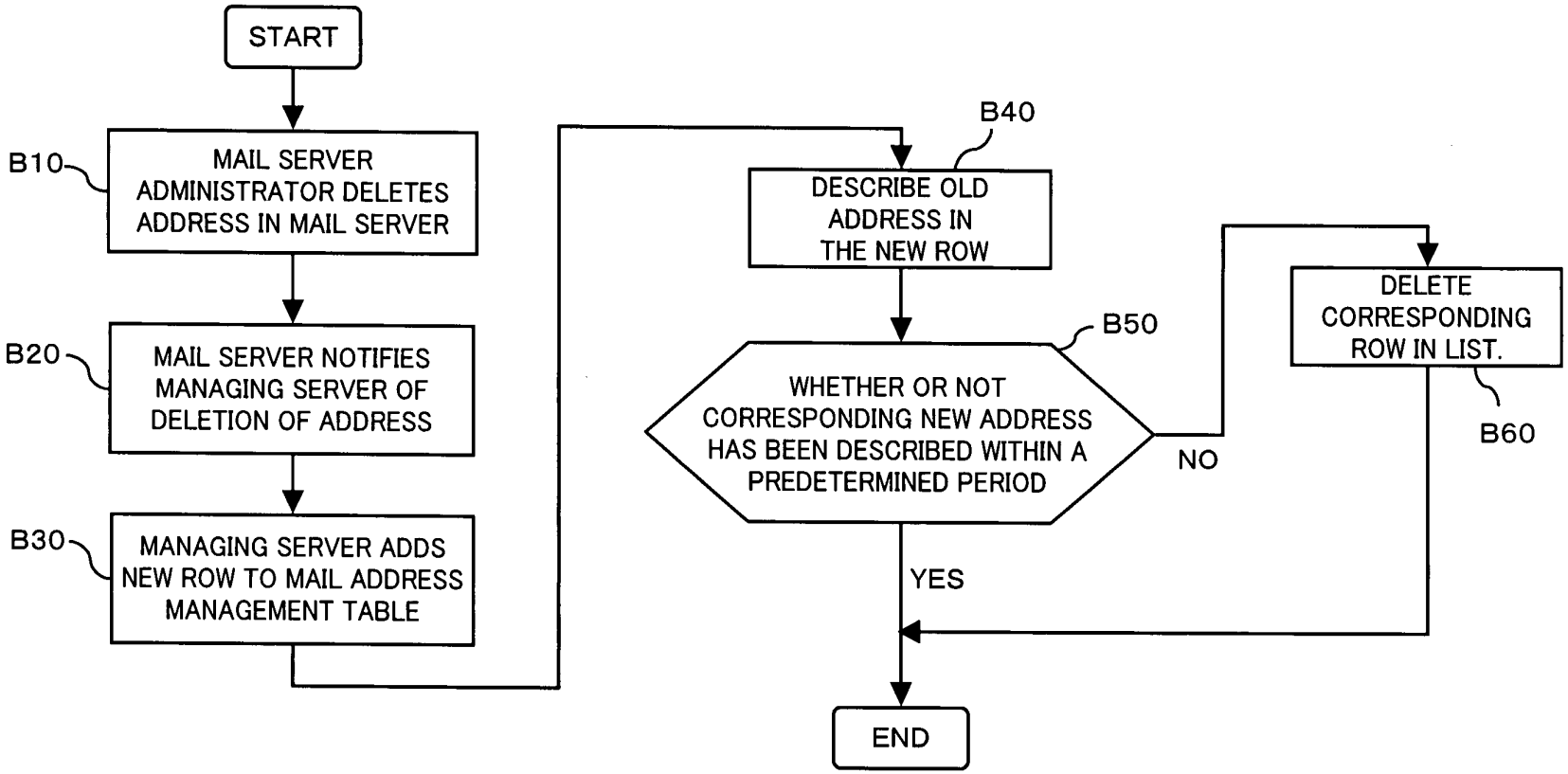

START
B10
MAIL SERVER ADMINISTRATOR DELETES ADDRESS IN MAIL SERVER
B20
MAIL SERVER NOTIFIES MANAGING SERVER OF DELETION OF ADDRESS
B30
MANAGING SERVER ADDS NEW ROW TO MAIL ADDRESS MANAGEMENT TABLE
B40
DESCRIBE OLD ADDRESS IN THE NEW ROW
B50
WHETHER OR NOT CORRESPONDING NEW ADDRESS HAS BEEN DESCRIBED WITHIN A PREDETERMINED PERIOD
NO
DELETE CORRESPONDING ROW IN LIST.
B60
YES
END

FIG. 8

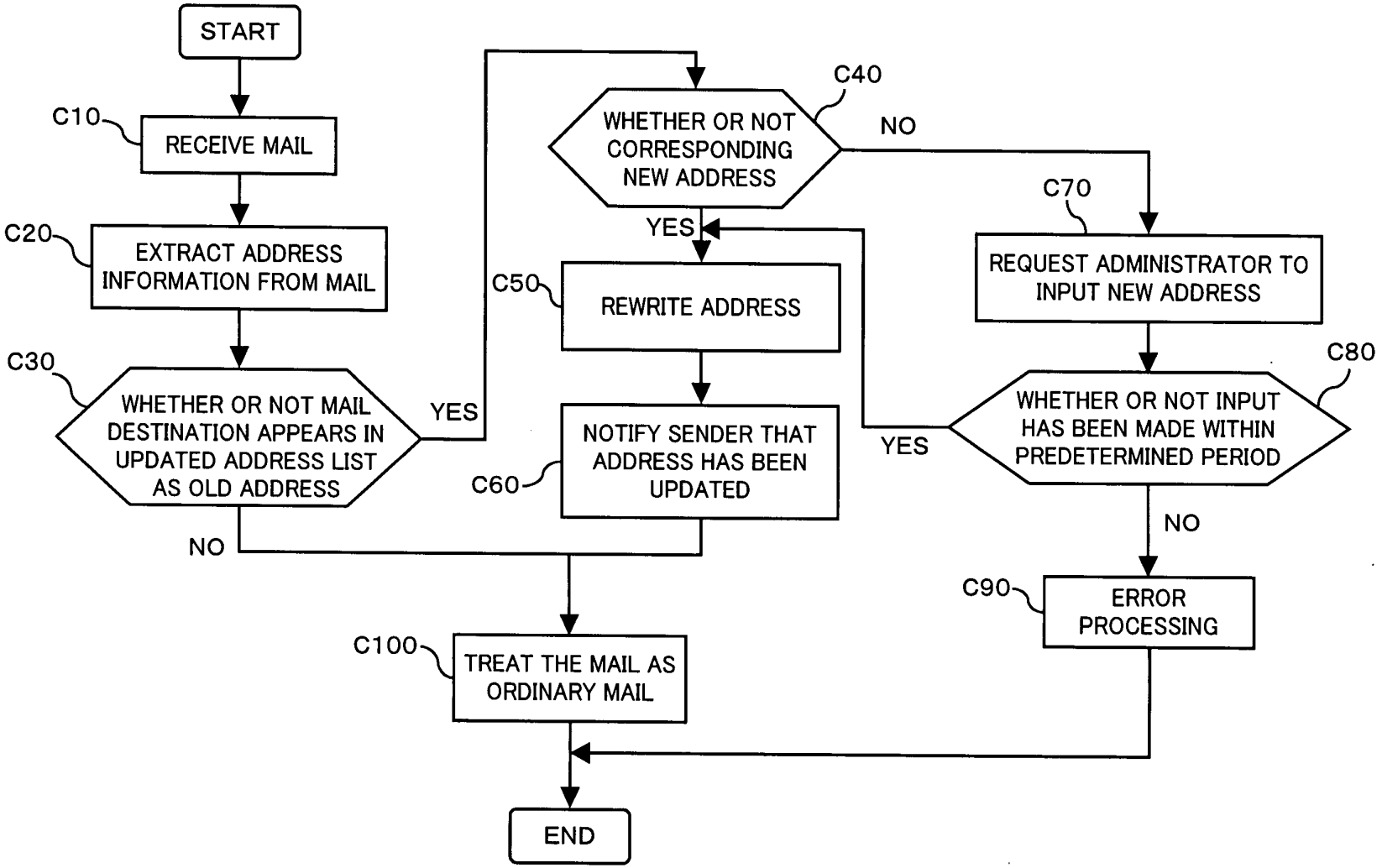

START
C10
RECEIVE MAIL
C20
EXTRACT ADDRESS INFORMATION FROM MAIL
C30
WHETHER OR NOT MAIL DESTINATION APPEARS IN UPDATED ADDRESS LIST AS OLD ADDRESS
YES
NO
C40
WHETHER OR NOT CORRESPONDING NEW ADDRESS
NO
YES
C50
REWRITE ADDRESS
C60
NOTIFY SENDER THAT ADDRESS HAS BEEN UPDATED
C70
REQUEST ADMINISTRATOR TO INPUT NEW ADDRESS
C80
WHETHER OR NOT INPUT HAS BEEN MADE WITHIN PREDETERMINED PERIOD
YES
NO
C90
ERROR PROCESSING
C100
TREAT THE MAIL AS ORDINARY MAIL
END

FIG. 9

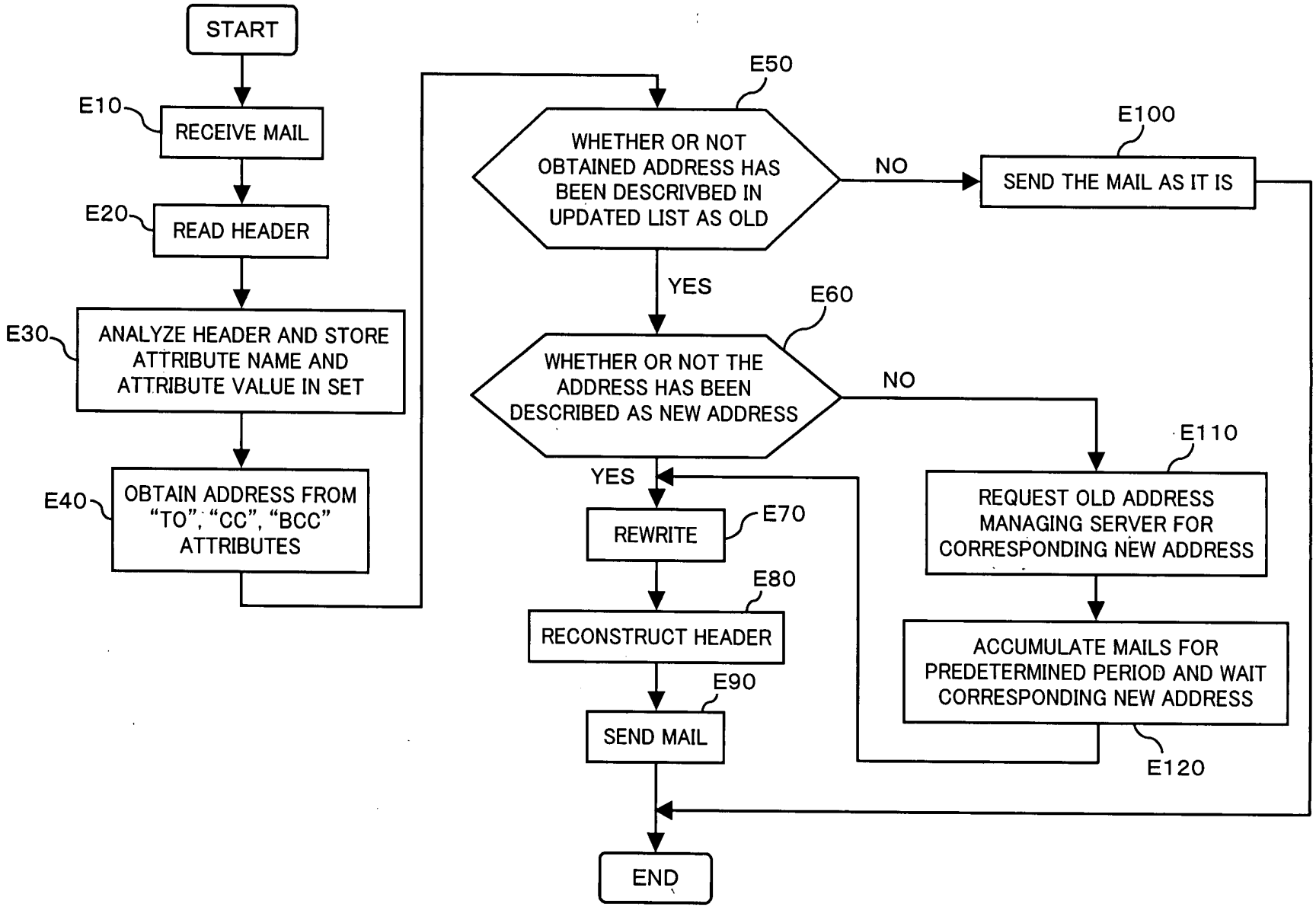

START
E10
RECEIVE MAIL
E20
READ HEADER
E30
ANALYZE HEADER AND STORE ATTRIBUTE NAME AND ATTRIBUTE VALUE IN SET
E40
OBTAIN ADDRESS FROM "TO", "CC", "BCC" ATTRIBUTES
E50
WHETHER OR NOT OBTAINED ADDRESS HAS BEEN DESCRIVBED IN UPDATED LIST AS OLD
NO
E100
SEND THE MAIL AS IT IS
YES
E60
WHETHER OR NOT THE ADDRESS HAS BEEN DESCRIBED AS NEW ADDRESS
NO
E110
REQUEST OLD ADDRESS MANAGING SERVER FOR CORRESPONDING NEW ADDRESS
YES
E70
REWRITE
E80
RECONSTRUCT HEADER
E90
SEND MAIL
ACCUMULATE MAILS FOR PREDETERMINED PERIOD AND WAIT CORRESPONDING NEW ADDRESS
E120
END

FIG. 10

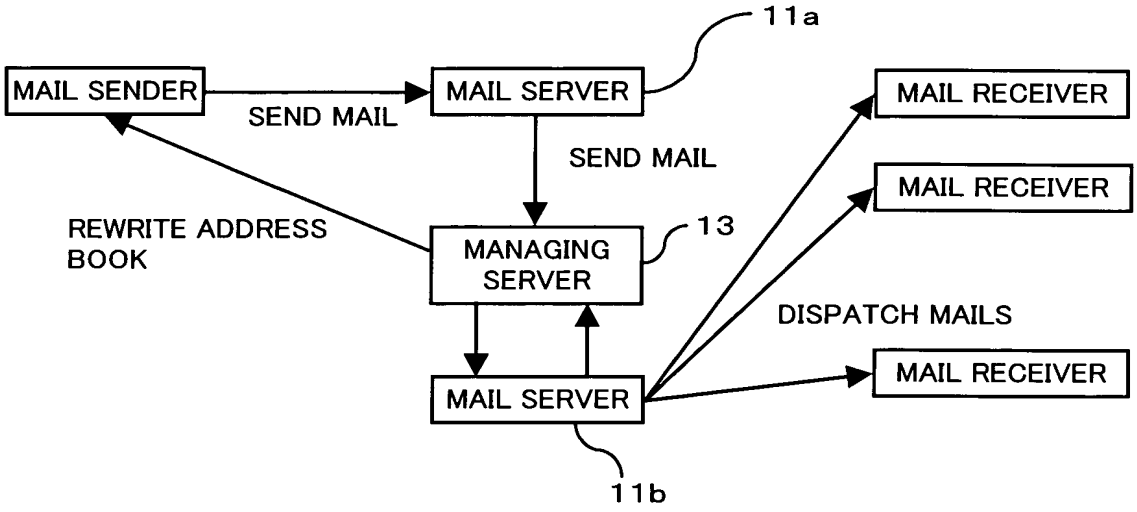

11a
MAIL SENDER
MAIL SERVER
MAIL RECEIVER
SEND MAIL
SEND MAIL
MAIL RECEIVER
REWRITE ADDRESS BOOK
MANAGING SERVER
13
DISPATCH MAILS
MAIL RECEIVER
MAIL SERVER
11b

FIG. 11

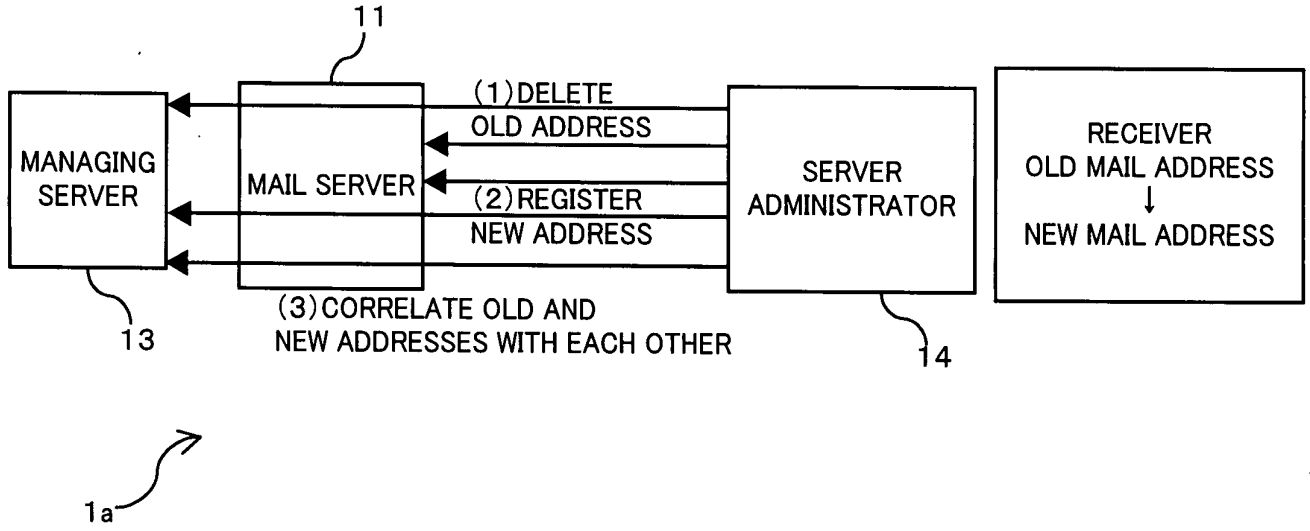

11
MANAGING SERVER
MAIL SERVER
(1) DELETE OLD ADDRESS
(2) REGISTER NEW ADDRESS
(3) CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
SERVER ADMINISTRATOR
RECEIVER
OLD MAIL ADDRESS
↓
NEW MAIL ADDRESS
13
14
1a

FIG. 12

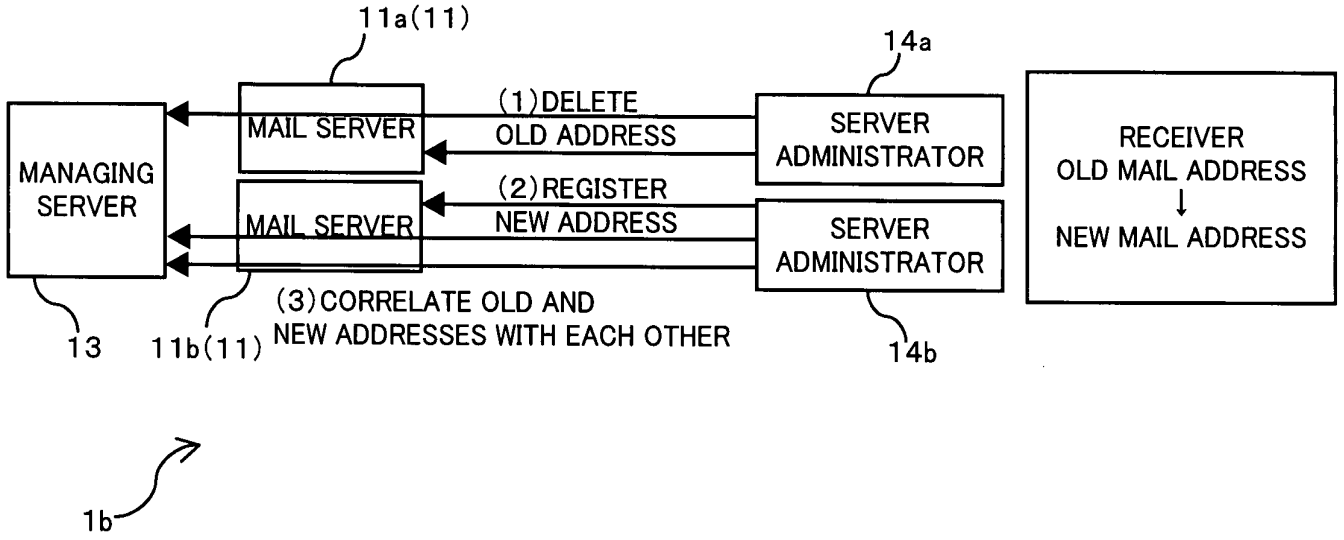

11a(11)
14a
MAIL SERVER
(1)DELETE
OLD ADDRESS
SERVER
ADMINISTRATOR
RECEIVER
OLD MAIL ADDRESS
↓
NEW MAIL ADDRESS
MANAGING
SERVER
MAIL SERVER
(2)REGISTER
NEW ADDRESS
SERVER
ADMINISTRATOR
(3)CORRELATE OLD AND
NEW ADDRESSES WITH EACH OTHER
13
11b(11)
14b
1b

FIG. 13

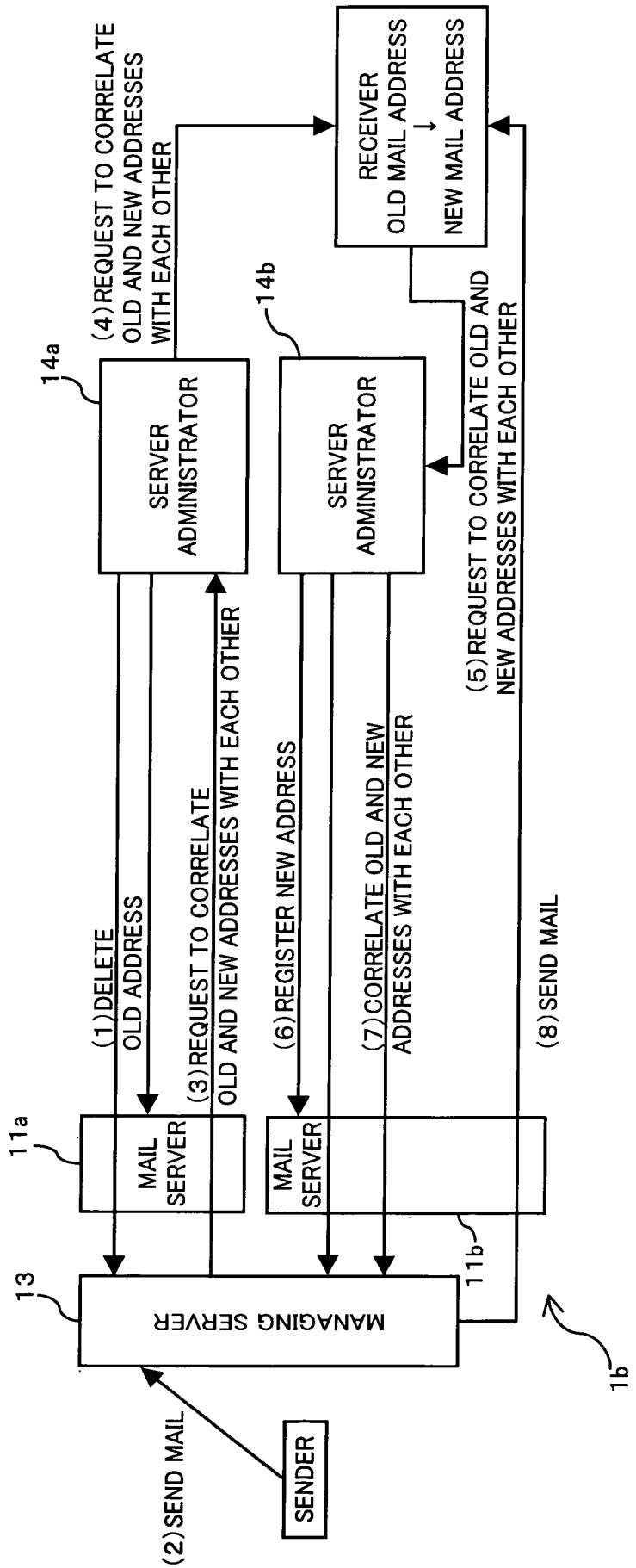
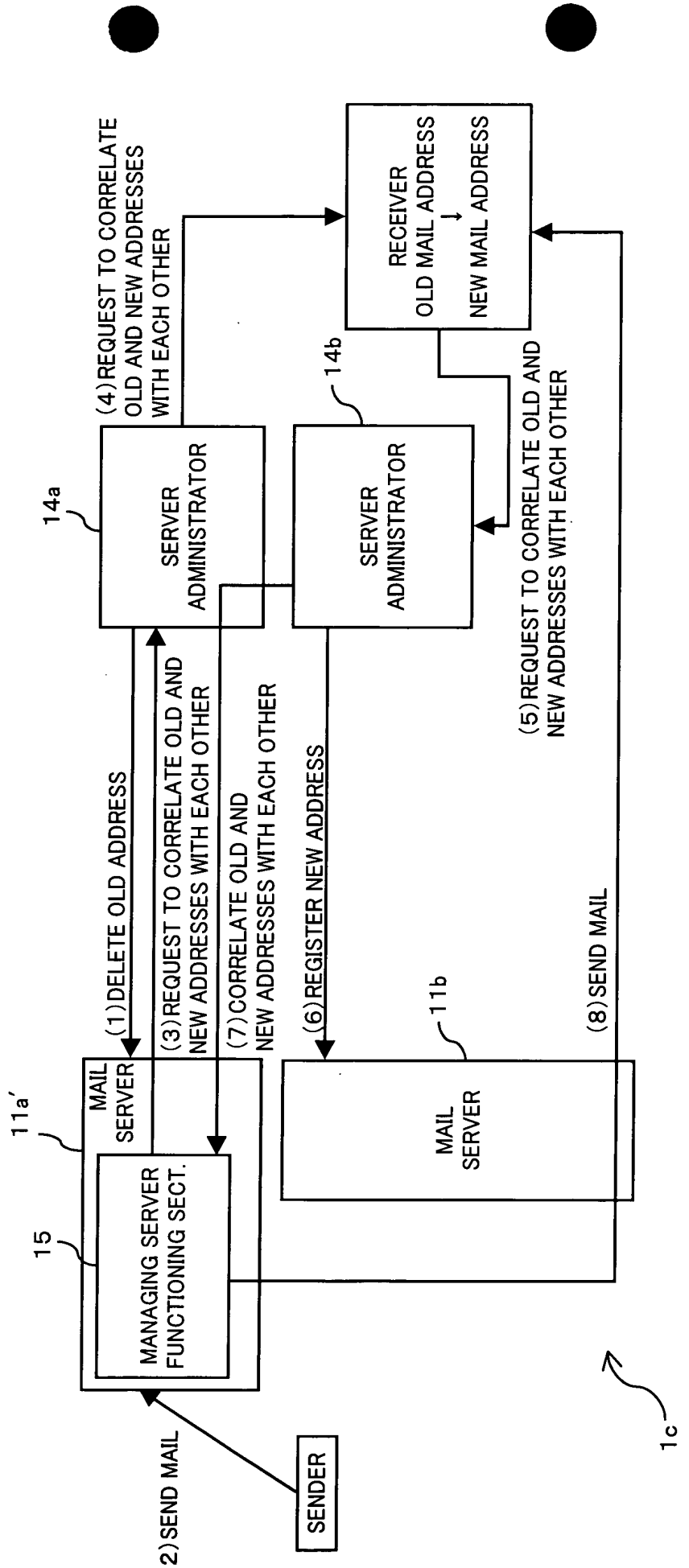

SENDER
(2) SEND MAIL
13
MANAGING SERVER
11a
MAIL SERVER
MAIL SERVER
11b
1b
(1) DELETE OLD ADDRESS
(3) REQUEST TO CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
(6) REGISTER NEW ADDRESS
(7) CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
(8) SEND MAIL
14a
SERVER ADMINISTRATOR
14b
SERVER ADMINISTRATOR
(4) REQUEST TO CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
(5) REQUEST TO CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
RECEIVER
OLD MAIL ADDRESS
↓
NEW MAIL ADDRESS

FIG. 14


RECEIVER
OLD MAIL ADDRESS
↓
NEW MAIL ADDRESS
(4) REQUEST TO CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
14a
SERVER ADMINISTRATOR
14b
SERVER ADMINISTRATOR
(5) REQUEST TO CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
(1) DELETE OLD ADDRESS
(3) REQUEST TO CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
(7) CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
(6) REGISTER NEW ADDRESS
11a'
MAIL SERVER
15
MANAGING SERVER FUNCTIONING SECT.
11b
MAIL SERVER
(8) SEND MAIL
(2) SEND MAIL
SENDER
1c

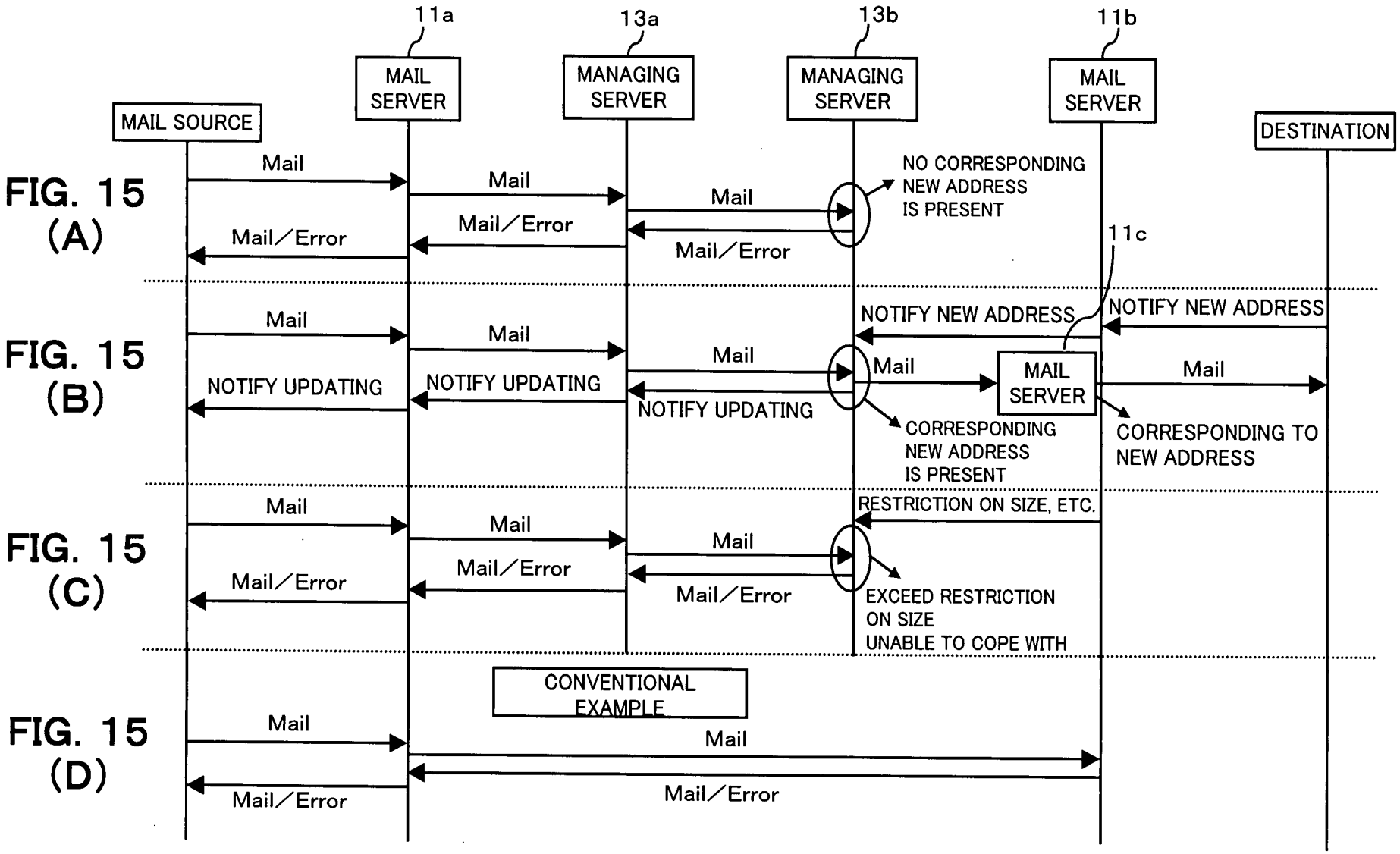


FIG. 15 (A)

FIG. 15 (B)

FIG. 15 (C)

FIG. 15 (D)

FIG. 16

	xxx@aa.bbb..co.jp	yyy@cc.bbb.co.jp	
RECEIVED SIZE RESTRICTION (KB/CASE)	1024	1024	
COMPRESSION TOOL	Lha	Zip	
DIVIDE/COMBINE	POSSIBLE	POSSIBLE	
CIPHER	POSSIBLE	IMPOSSIBLE	

40

FIG. 17

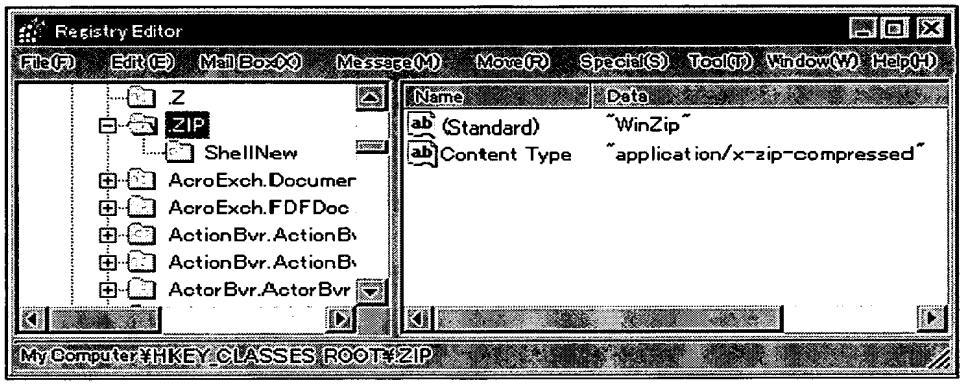

Registry Editor
File(F) Edit(E) Mail Box(X) Message(M) Move(R) Special(S) Tool(T) Window(W) Help(H)
.Z
ZIP
ShellNew
AcroExch.Documer
AcroExch.FDFDoc
ActionBvr.ActionB
ActionBvr.ActionB
ActorBvr.ActorBvr
Name
Data
(Standard) "WinZip"
Content Type "application/x-zip-compressed"
My Computer¥HKEY_CLASSES_ROOT¥ZIP

FIG. 18

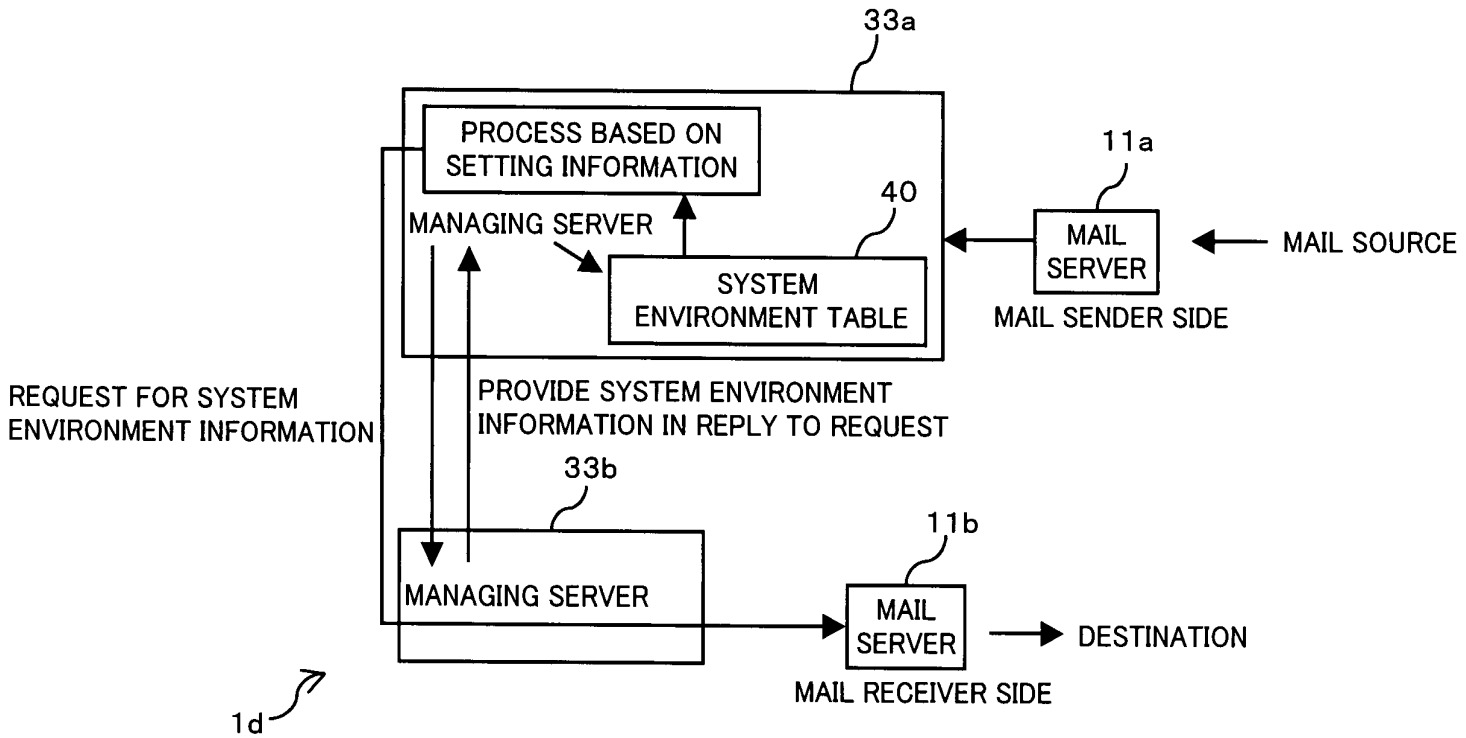

33a
PROCESS BASED ON SETTING INFORMATION
MANAGING SERVER
40
SYSTEM ENVIRONMENT TABLE
11a
MAIL SERVER
MAIL SOURCE
MAIL SENDER SIDE
REQUEST FOR SYSTEM ENVIRONMENT INFORMATION
PROVIDE SYSTEM ENVIRONMENT INFORMATION IN REPLY TO REQUEST
33b
MANAGING SERVER
11b
MAIL SERVER
DESTINATION
MAIL RECEIVER SIDE
1d

FIG. 19

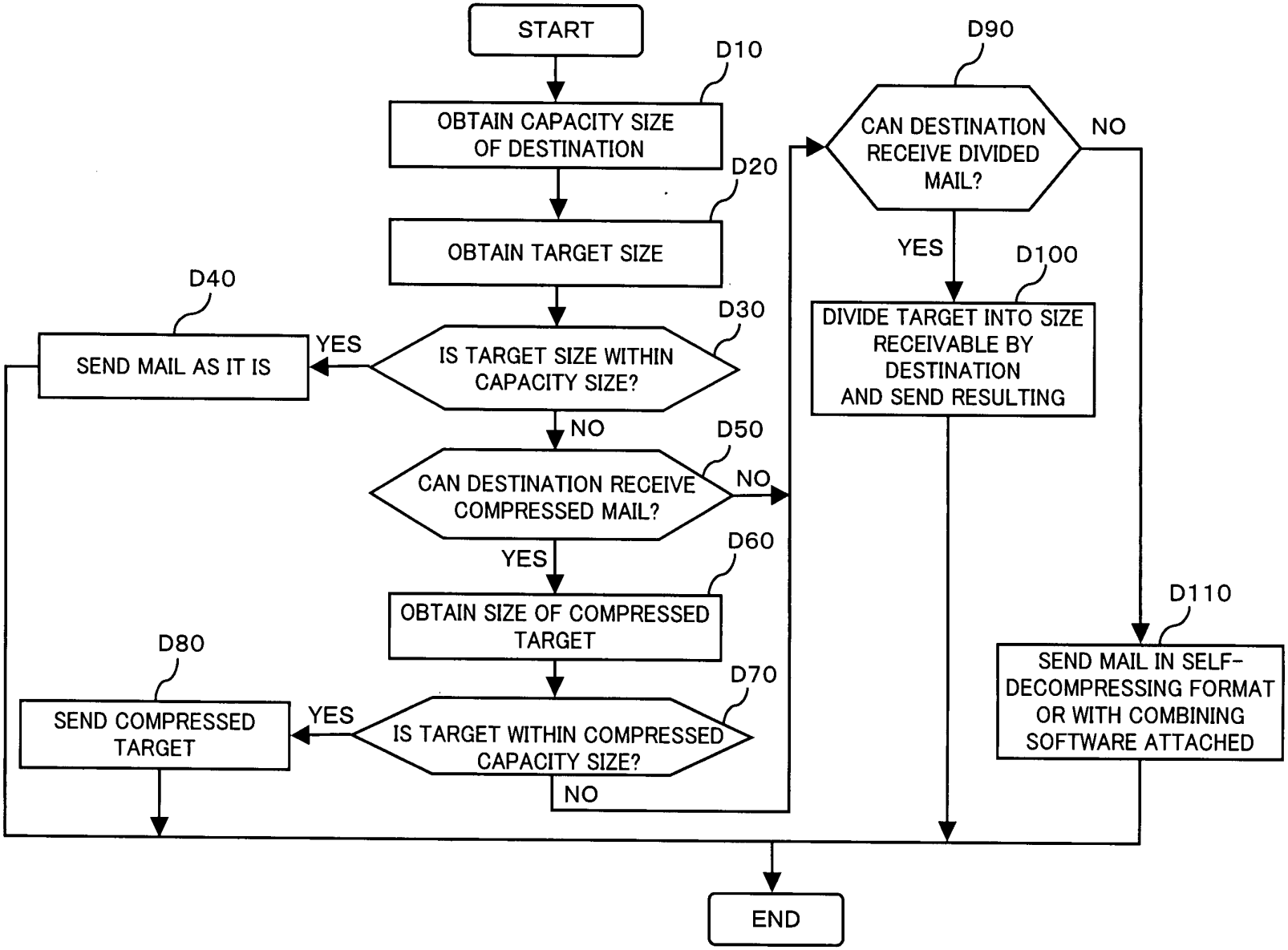

START
D10
OBTAIN CAPACITY SIZE OF DESTINATION
D20
OBTAIN TARGET SIZE
D30
IS TARGET SIZE WITHIN CAPACITY SIZE?
YES
D40
SEND MAIL AS IT IS
NO
D50
CAN DESTINATION RECEIVE COMPRESSED MAIL?
NO
YES
D60
OBTAIN SIZE OF COMPRESSED TARGET
D70
IS TARGET WITHIN COMPRESSED CAPACITY SIZE?
YES
D80
SEND COMPRESSED TARGET
NO
D90
CAN DESTINATION RECEIVE DIVIDED MAIL?
NO
YES
D100
DIVIDE TARGET INTO SIZE RECEIVABLE BY DESTINATION AND SEND RESULTING
D110
SEND MAIL IN SELF-DECOMPRESSING FORMAT OR WITH COMBINING SOFTWARE ATTACHED
END

FIG. 20

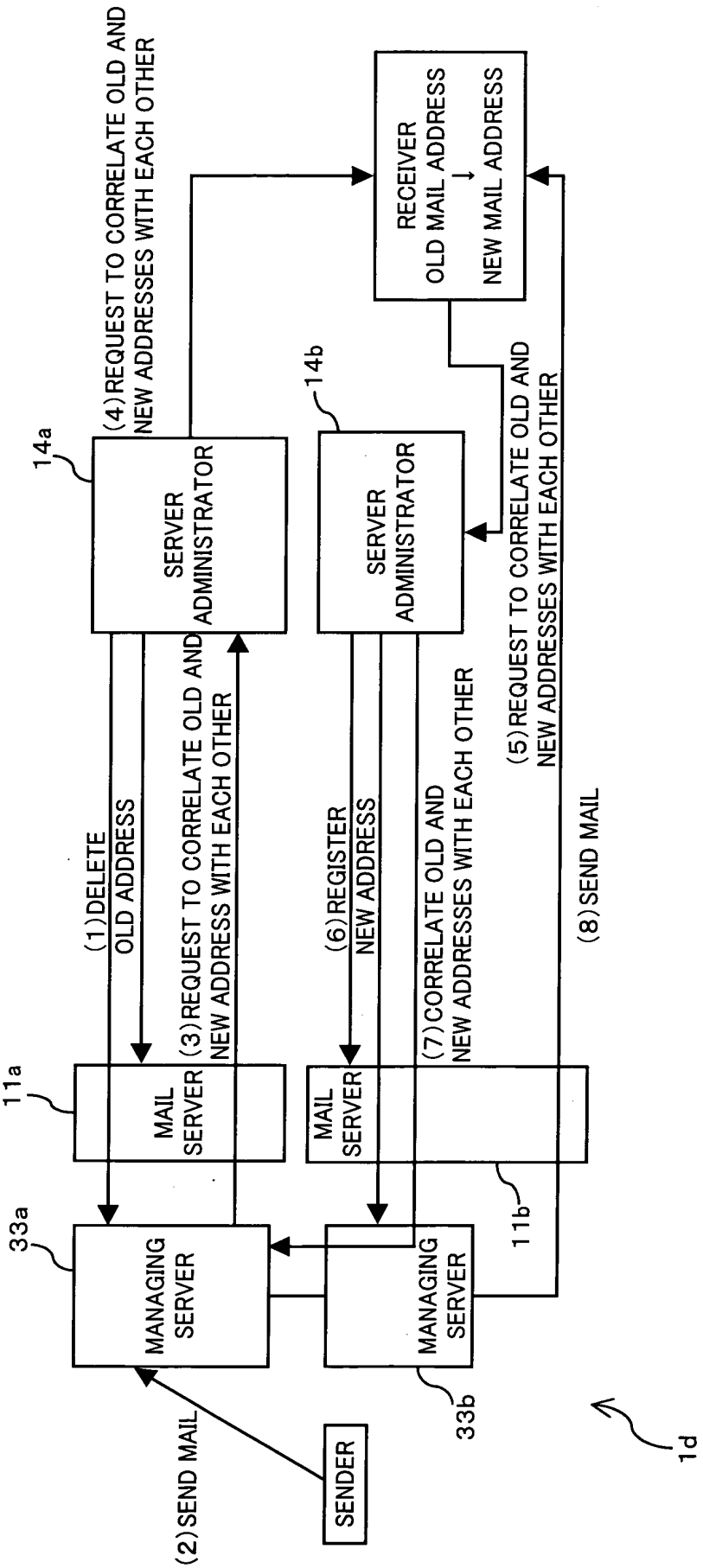

(4) REQUEST TO CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
14a
SERVER ADMINISTRATOR
14b
SERVER ADMINISTRATOR
RECEIVER
OLD MAIL ADDRESS
↓
NEW MAIL ADDRESS
(1) DELETE OLD ADDRESS
(3) REQUEST TO CORRELATE OLD AND NEW ADDRESS WITH EACH OTHER
(6) REGISTER NEW ADDRESS
(7) CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
(5) REQUEST TO CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
(8) SEND MAIL
11a
MAIL SERVER
MAIL SERVER
11b
33a
MANAGING SERVER
MANAGING SERVER
33b
(2) SEND MAIL
SENDER
1d

FIG. 21

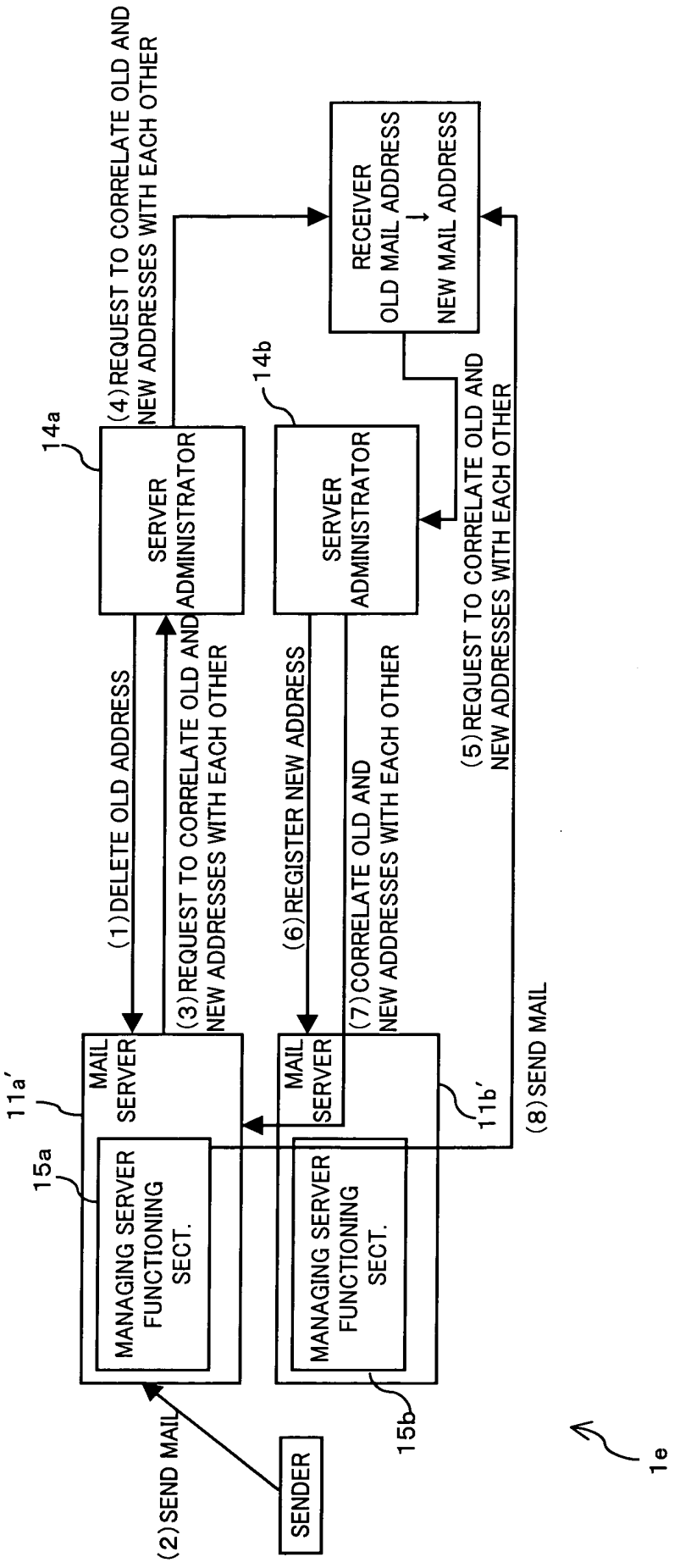

SENDER
(2) SEND MAIL
15a
15b
11a'
11b'
MAIL SERVER
MAIL SERVER
MANAGING SERVER FUNCTIONING SECT.
MANAGING SERVER FUNCTIONING SECT.
14a
14b
SERVER ADMINISTRATOR
SERVER ADMINISTRATOR
(1) DELETE OLD ADDRESS
(3) REQUEST TO CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
(4) REQUEST TO CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
(5) REQUEST TO CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
(6) REGISTER NEW ADDRESS
(7) CORRELATE OLD AND NEW ADDRESSES WITH EACH OTHER
(8) SEND MAIL
RECEIVER
OLD MAIL ADDRESS
↓
NEW MAIL ADDRESS
1e

FIG. 22

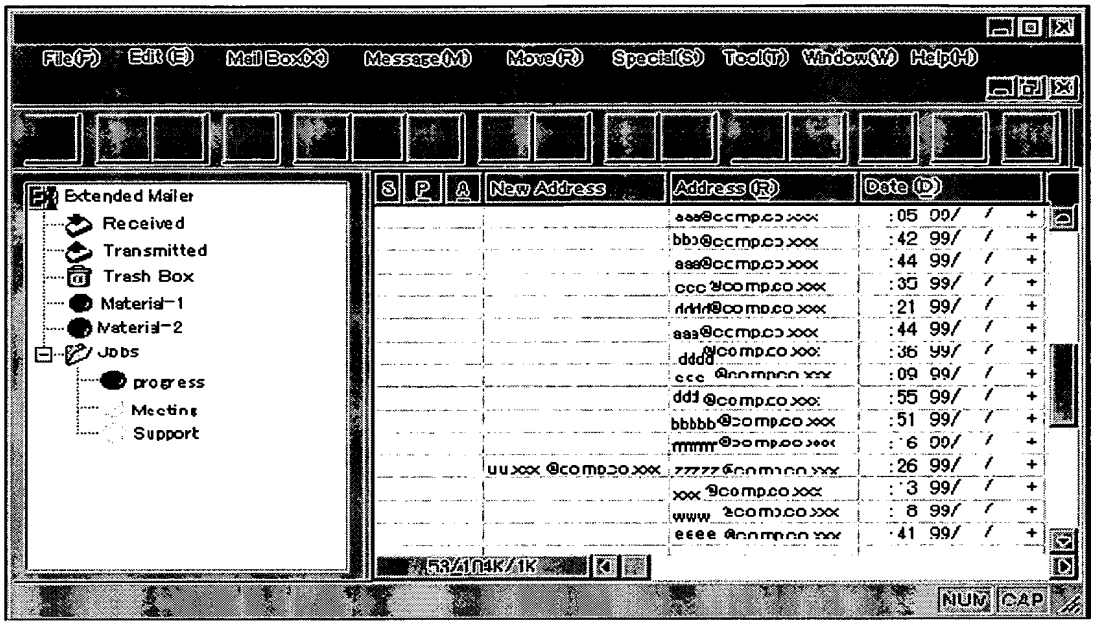

File(F) Edit(E) Mail Box(X) Message(M) Move(R) Special(S) Tool(T) Window(W) Help(H)
Extended Mailer
Received
Transmitted
Trash Box
Material-1
Material-2
Jobs
progress
Meeting
Support
New Address
Address(R)
Date(D)
NUM
CAP

FIG. 23

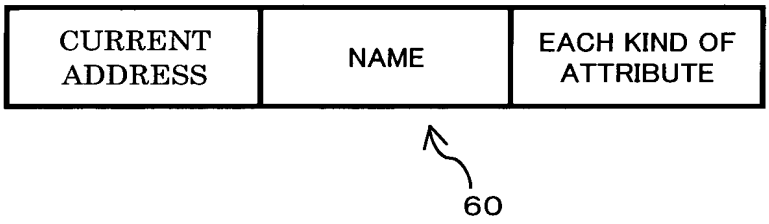


FIG. 24

(RELATED ART)

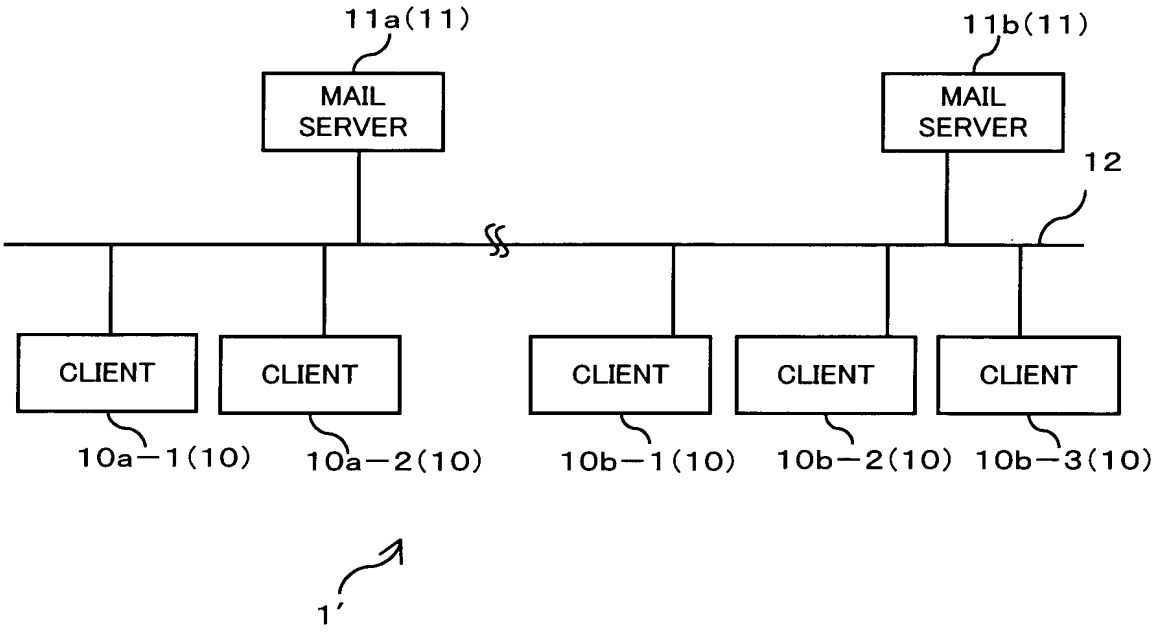


FIG. 25

(RELATED ART)